



Sanjay Ghodawat University, Kolhapur

2017-18

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

FY M. Tech

School of Technology

Semester II

EES 502

Automotive Embedded Systems - II

Max Marks: 100

24 May 2018

End Semester Examination (ESE)

Time: 3 Hrs.

10:30 AM to 1:30 PM

- Instructions for Students:**
- 1) Use of non-programmable calculator is allowed
 - 2) All questions are compulsory

Q1	Solve any Two	Marks	COs
a)	Explain tyre pressure monitoring system in car	8	CO1
b)	Explain four-wheeler security system	8	CO1
c)	Explain parking guide system in vehicle.	8	CO1
Q2			
a)	Explain different methods of traction control.	8	CO2
b)	How doppler is used to avoid the collision of vehicles.	9	CO2
	OR		
b)	Explain significance of ABS and how it avoids the skidding?	9	CO2
Q3			
a)	What are the applications of MEMS in safety of vehicles?	8	CO3
b)	Explain MEMS as a micro-sensor.	9	CO3
Q4	Solve any Two		
a)	Explain exhaust emission control engineering.	8	CO4
b)	Explain electronic fuel injection.	8	CO4
c)	Explain electronic ignition system.	8	CO4
Q5			
a)	Explain multiprocessor communication using CAN bus.	8	CO5
b)	Explain body electronics in car.	9	CO5
	OR		
b)	Explain cruise control of car.	9	CO5
Q6			
a)	Explain ECU in car.	8	CO6
b)	Explain ASS in car.	9	CO6
